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OF THE



### MASSACHUSETTS AGRICULTURAL COLLEGE

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German Kali Works

Publications vol. 4.

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### RESULTS



### A Photographic Record of Results of Tests with Fertilizers in New York State



### PUBLISHED BY

### GERMAN KALI WORKS

93 Nassau Street ... NEW YORK CITY, N. Y.

ATLANTA, GA. CHICAGO, ILL. HAVANA, CUBA

WE present in the following pages careful and accurate reports of twenty tests with different fertilizers in eleven Counties of New York State. It may be explained that eight of the tests were made with potatoes, which next to hay, is the most important crop of the State. The remaining twelve experiments cover ten different crops commonly grown.

The experiments, results of which are here reported, were conducted according to the following simple plan, which every farmer may arrange for himself:

Plot No. 1 (Check Plot)
No fertilizer used.

### Plot No. 2

Complete fertilizer supplying Potash, Phosphoric Acid and Nitrogen used on this plot.

### Plot No. 3

Same amount of Phosphoric Acid and Nitrogen as on Plot No. 2, but no Potash applied to this plot.

Each plot contains the same area, usually  $\frac{1}{4}$  or  $\frac{1}{3}$  acre.

The object of these practical experiments was to find out: (1) How much increase would be obtained over the unfertilized plot by the use of a complete fertilizer containing Potash, Phosphoric Acid and Nitrogen. (2) How much of the increase was due to Potash alone.

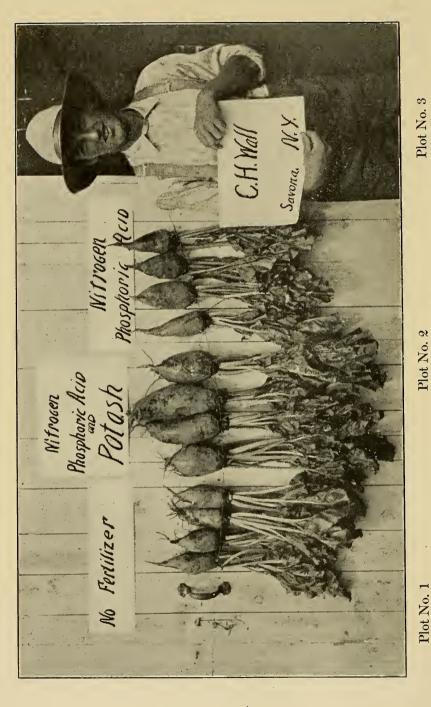
The results in the first case are shown by comparing yields from Plots 1 and 2, and in the second case, by comparing Plots 2 and 3.

The photographs which follow illustrate the relative yields obtained or show the growth on the plots during the progress of these actual field tests, the records of which should be read and carefully studied by every farmer, in order that he may profit by the experience of others.

For further information address the GERMAN KALI WORKS

93 Nassau Street New York, N. Y.

## TEST ON MANGELS (BEETS) BY C. H. WALL, SAVONA, N. Y.



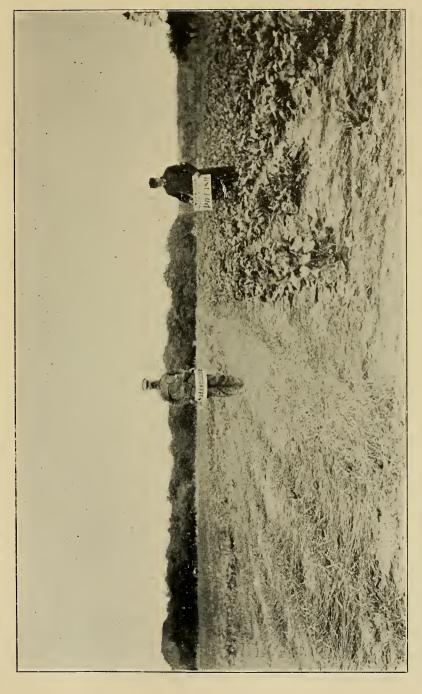
Complete Fertilizer (With Potash) Kield: 28,112 Pounds Increase from \$4.00 worth of Sulphate of Potash... Yield: 22,848 Pounds No Fertilizer

Incomplete Fertilizer (No Potash) Yield: 24,956 Pounds

....3,156 pounds Mangels.

A good Fertilizer for Mangels and other root crops should contain at least 9 or 10% of Potash.

### TEST ON SUGAR BEETS BY A. G. REEVE, ANGOLA. N. Y.



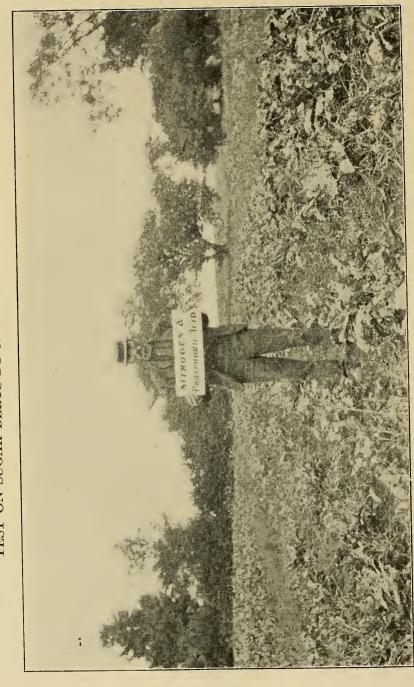
Unfertilized—Crop was a Failure

Completely Fertilized (With Potash)—Yield 12,000 pounds

Yield on Plot Incompletely Fertilized (Without Potash) 9,600 pounds

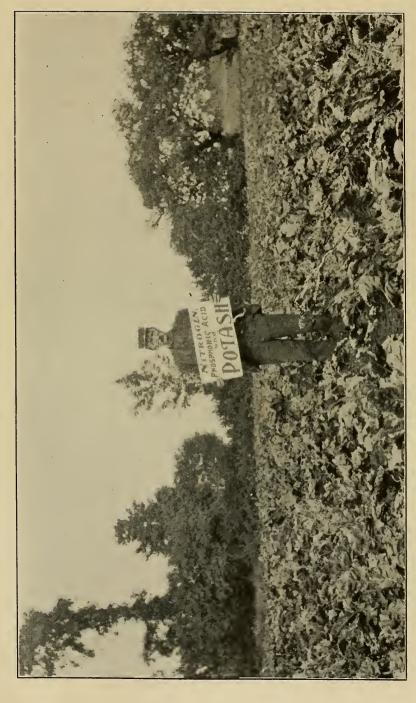
........2,400 pounds Beets, containing 16% sugar. Increase from \$4.00 worth of potash.....

A satisfactory fertilizer for Sugar Beets should contain at least 10% Potash.



Plot No. 3. Incomplete Fertilizer (No Potash). Yield: 6,690 pounds.

## TEST ON SUGAR BEETS BY J. W. WIGGINS, WARSAW, N. Y.



... 4,230 pounds Beets. Value: \$9.00. Plot No. 2. Complete fertilizer with Potash. Yield: 10,920 pounds A satisfactory fertilizer for Beets will contain at least 10% Potash. Increase obtained with \$3.00 worth of Sulphate of Potash....

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### TEST ON POTATOES BY H. H. LYON, Bainbridge, N. Y.



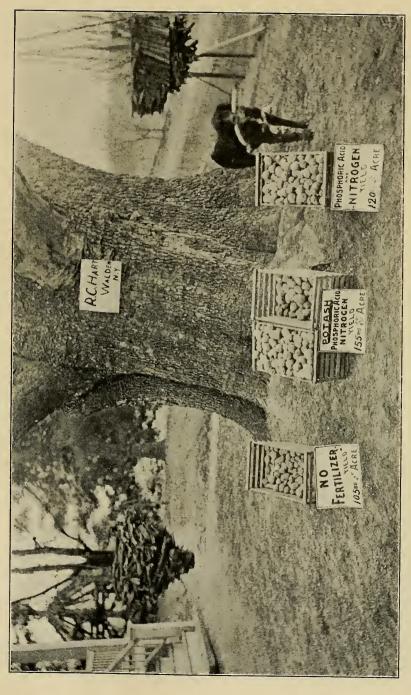
Plot No. 2. Complete Fertilizer (With Potash). Yield: 152.7 bushels per Acre.



Plot No. 3. Incomplete Fertilizer (No Potash). Yield: 139 bushels per Acre.

A satisfactory Potato Fertilizer should contain at least 10% of Potash.

### TEST ON POTATOES BY R. C. HART, WALDEN, N. Y.



Plot No. 1
No Fertilizer

Yield: 105 Bushels per'Acre

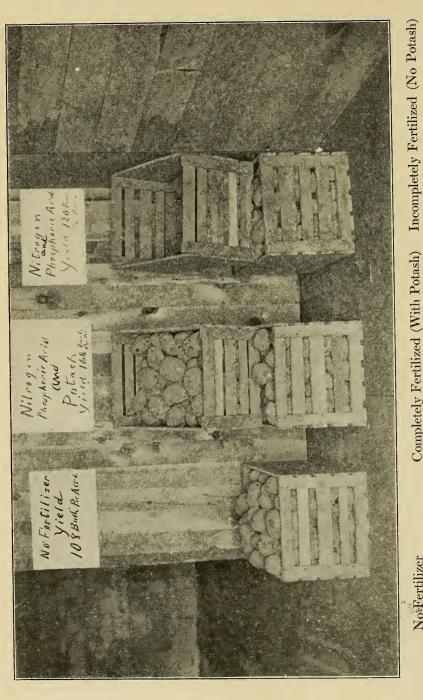
Increase from \$12.50 worth of Complete Fertilizer.

Increase from \$4.50 worth of Sulphate of Potash...

Plot No. 2 Complete Fertilizer (With Potash) Yield: 155 Bushels per Acre

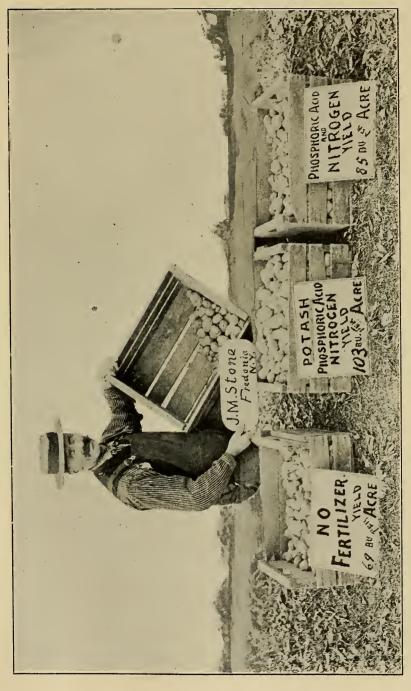
See that your Potato fertilizer contains at least 10% Potash.

### TEST ON POTATOES BY L. R. ROGERS, ALBION, N. Y.



.....56 bushels potatoes. . 44 bushels potatoes. Yield: 120 Bushels per Acre Completely Fertilized (With Potash) Yield: 168 Bushels per Acre Increase from \$12.50 worth of Complete Fertilizer ... Increase from \$2.75 worth of Sulphate of Potash.. Yield: 108 Bushels per Acre. NorFertilizer

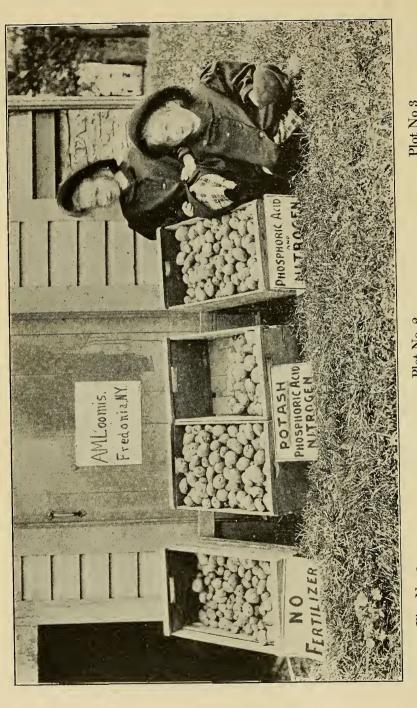
### TEST ON POTATOES BY J. M. STONE, FREDONIA, N. Y.



.18 bushels potatoes. ..34 bushels potatoes. Complete Fertilizer (With Potash) Incomplete Fertilizer (Without Potash) Yield: 103 Bushels per Acre Plot No. 3 Plot No. 2 Increase from \$12.50 worth of Complete Fertilizer..... Increase from \$4.50 worth of Potash. Yield: 69 Bushels per Acre Plot No. 1 No Fertilizer

See that your fertilizer for Potatoes contains not less than 10% Potash.

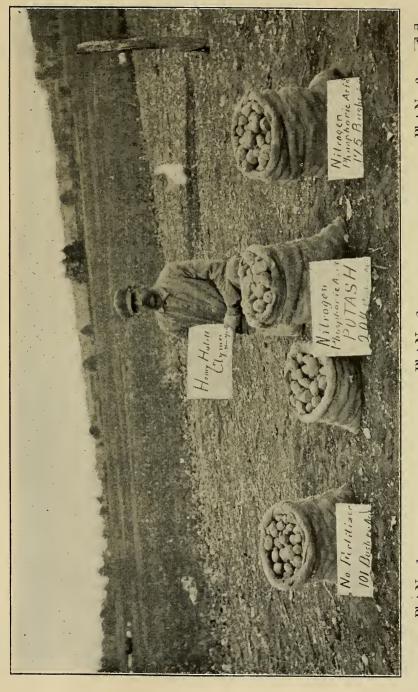
### TEST ON POTATOES BY A. M. LOOMIS, FREDONIA, N. Y.



... 73 bushels potatoes. Complete Fertilizer (With Potash) Incomplete Fertilizer (Without Potash)
Yield: 125 Bushels per Acre .31 bushels potatoes. Increase from \$14.00 worth of Complete Fertilizer... Increase from \$5.50 worth of Sulphate of Potash.... Yield: 52 Bushels per Acre No Fertilizer Plot No. 1

See that your fertilizer for Potatoes contains at least 10% of Potash.

### TEST ON POTATOES BY HENRY HULETT, CLYMER, N. Y.



Increase from \$12.50 worth of Complete Fertilizer.... Yield: 101 Bushels per Acre Plot No. 1 No Fertilizer

Increase from \$2.75 worth of Sulphate of Potash.....

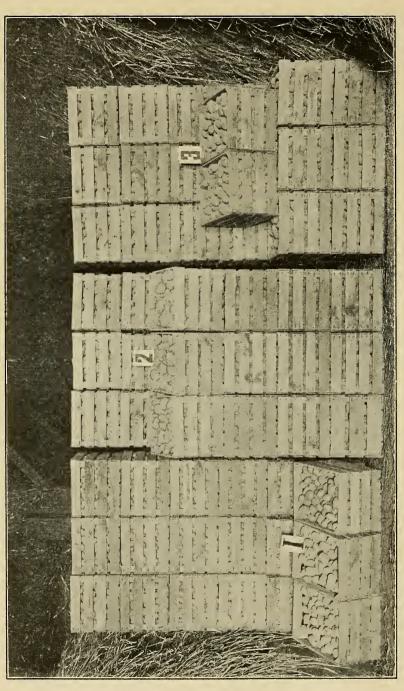
Complete Fertilizer (With Potash) Yield: 204 Bushels per Acre Plot No. 2

Plot No. 3 A Table The Property Triple Pertilizer (No Potash) Yield: 175 Bushels per Acre

....103 bushels per acre.

.99 bushels per acre.

See that your fertilizer for Potatoes contains not less than 10% Potash.



..45 bushels potatoes...25 bushels potatoes. Plot No. 3 Incomplete Fertilizer (No Potash) Yield: 130 Bushels per Acre Plot No. 2 Complete Fertilizer (With Potash) Yield: 150 Bushels per Acre Increase from \$12.50 worth of Complete Fertilizer. Increase from \$2.75 worth of Sulphate of Potash... Yield: 105 Bushels per Acre No Fertilizer Plot No. 1

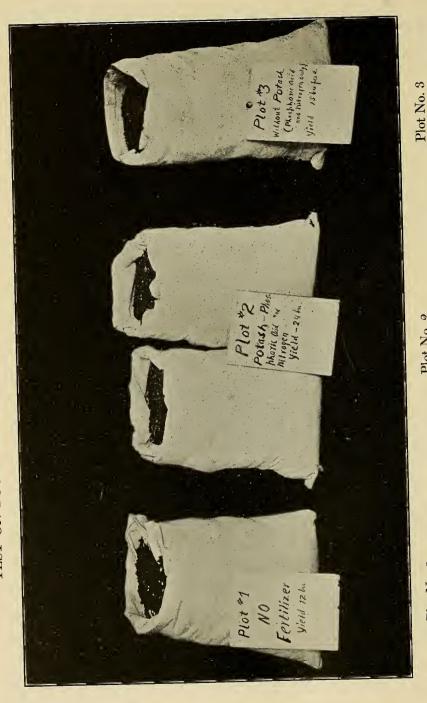
See that your Potato fertilizer contains not less than 10% of Potash.

### TEST ON POTATOES BY W. H. CALDWELL, EAST FREETOWN, N. Y.



### TEST ON CABBAGE BY D. L. BEARDSLEY, CORTLAND, N. Y.





Plot No. 2
Complete Fertilizer (With Potash)
Yield: 24 Bushels per Acre

Incomplete Fertilizer (No Potash) Yield: 15 Bushels per Acre

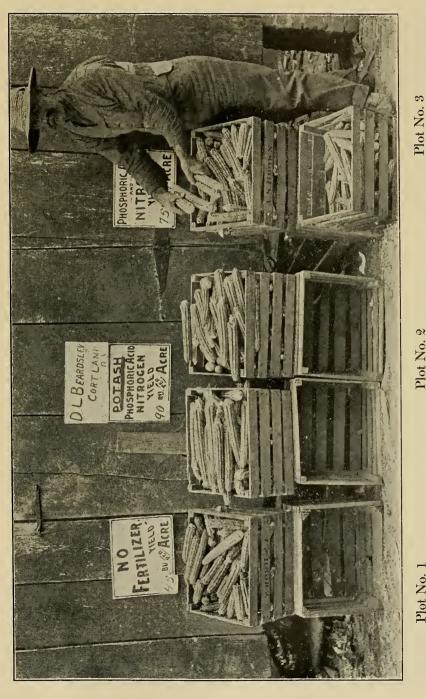
..... 9 bushels per acre.

Increase from use of 120 pounds Muriate of Potash ....

Plot No. 1 No Fertilizer Yield: 12 Bushels per Acre

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# TEST ON FLINT CORN BY D. L. BEARDSLEY, CORTLAND, N. Y.

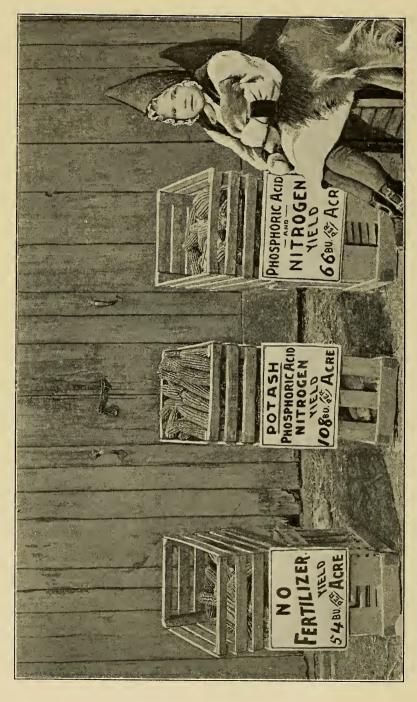


Plot No. 2 Complete Fertilizer (With Potash) Yield: 90 Bushels per Acre Increase from \$9.50 worth of Complete Fertilizer.... Increase from \$2.25 worth of Muriate of Potash..... Yield: 45 Bushels per Acre Plot No. 1 No Fertilizer

Incomplete Fertilizer (Without Potash)
Yield: 75 Bushels per Acre
45 bushels corn.

..15 bushels corn.

A good fertilizer for Corn should contain from 8 to 10% of Actual Potash.

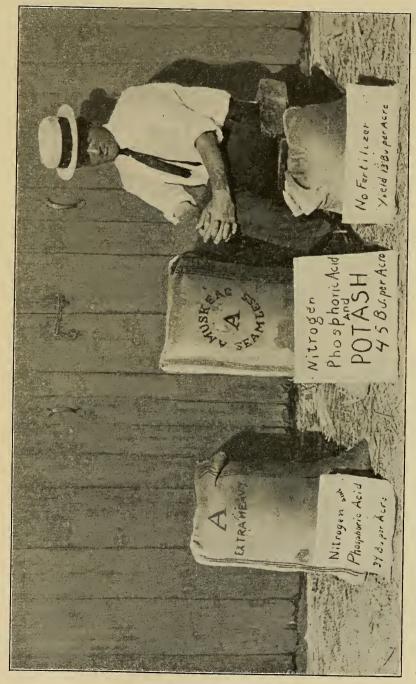


Increase from \$9.50 worth of Complete Fertilizer..... Increase from \$2.25 worth of Muriate of Potash...

...54 bushels.

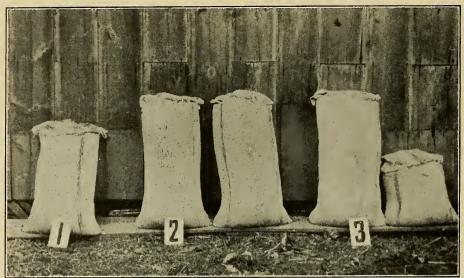
A good Corn fertilizer should contain at least 8 to 10% Actual Potash.

### TEST ON WHEAT BY JAS. MORSE, LEVANNA, N. Y.



13 Bushels per Acre. .....32 bushels. No Fertilizer. A good complete fertilizer for Wheat should supply 2% Nitrogen, 8% Available Phosphoric Acid and 6% Potash. Complete Fertilizer (With Potash) 45 Bushels per Acre Increase from \$9.00 worth of Complete Fertilizer..... Increase from \$2.25 worth of Muriate of Potash..... Incomplete Fertilizer (No Potash) 39 Bushels per Acre

### TEST ON OATS BY A. J. NORMAN, CHARLOTTE CENTER, N. Y.

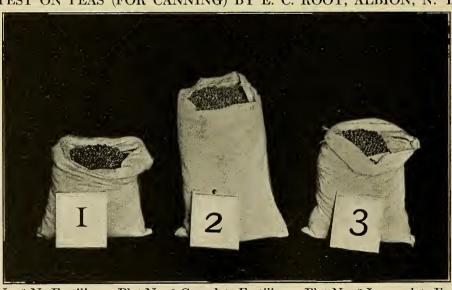


Plot No. 1 No Fertilizer 

Plot No. 2—Complete Fertilizer (With Potash)

Plot No. 3—Incomplete Fertilizer (No Potash)

### TEST ON PEAS (FOR CANNING) BY E. C. ROOT, ALBION, N. Y.



### TEST ON BEANS BY H. O. HAKES, FANCHER, N. Y.



Plot No. 1. No Fertilizer. Yield:  $6\frac{5}{6}$  Bushels per Acre.



Plot No. 2. Complete Fertilizer (With Potash). Yield: 13\frac{1}{3} Bushels per Acre.

### TEST ON BEANS BY H. O. HAKES, FANCHER, N. Y.



Plot No. 3. Incomplete Fertilizer. Yield: 7<sup>2</sup><sub>3</sub> Bushels per Acre.

Increase from \$2.75 worth of Potash...... $5\frac{2}{3}$  bushels beans.

A good high-grade fertilizer for Beans and other garden or truck crop will contain at least 10% of Potash.

# TEST ON GRAPES BY FRANK G. DORMAN, FREDONIA, N. Y.



Plot No. 3 Complete Fertilizer (With Potash) Yield: 2,432 Pounds Plot No. 2 Increase from Complete Fertilizer... Yield: 1,792 Pounds No Fertilizer Plot No. 1

Incomplete Fertilizer (Without Potash) Yield: 2.016 Pounds ......640 pounds grapes.

..... 224 pounds grapes. The value of potash in Grape Growing has been well established; the fertilizer should supply at least 10 to 12% actual potash. Increase from \$2.75 worth of Sulphate of Potash....

Copies of this booklet sent free on application to persons interested in farming.

### OTHER IMPORTANT BOOKS ON AGRICULTURAL SUBJECTS:

Principles of Profitable Farming,
Potash in Agriculture,
Farmers' Guide,

Farmers' Note Book, Cotton Culture,

 $To bacco\ Culture,$ 

Strawberry Culture, Tropical Planting,

Value of Swamp Lands,

Fertilizing Tobacco,
Sugar Cane Culture,
Sugar Beet Culture,

The Cow Pea

Plant Food,

Truck Farming,

Why the Fish Failed,

Stassfurt Industry,

Orange Culture.

State which of the above publications you desire and it will be mailed to you free of charge.

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